

Remarks

Claims 1-31 and 33-36 are pending in the application. Claim 32 was previously canceled. Claims 1, 8, 28, and 30 have been amended. No new matter has been added by virtue of this amendment. Reconsideration of the application in view of this response is requested.

Applicant has amended claim 1 to include portions of claim 28 that the Examiner identified as making claim 28 allowable.

Applicant has amended claim 8 to remove limits added to claim 1 by virtue of this amendment.

Applicant has amended allowed claims 28 to fix minor problems with the language.

Applicant has amended claim 30 to remove a limit already included in claim 29.

Applicant would ask the Examiner to consider that original claim 35 is an independent claim. In the office action the Examiner erroneously identified claim 35 as being dependent on claim 28. Applicant would respectfully ask the Examiner to consider whether claim 35 is allowable, and if not, to withdraw the finality of the office action.

Information Disclosure Statement

A review of the papers and patents possessed by applicant's attorney shows that none is more relevant to the invention as claimed than those cited by the Examiner. Therefore no information disclosure statement has been submitted.

Claim Rejections-- 35 U.S.C. § 103

The Examiner rejects claims 1-10, 15, 18-21, 23, and 25-27 under 35 U.S.C. § 103(a), as being unpatentable over Roeger. Applicant has amended claim 1 to include limits of claim 28 that the Examiner identified as making claim 28 allowable. Therefore, the rejection of claims 1-10, 15, 18-21, 23, and 25-27 under 35 U.S.C. § 103(a), as being unpatentable over Roeger has been traversed.

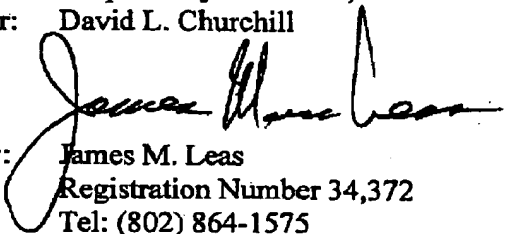
The Examiner rejects claims 1-7 under 35 U.S.C. § 103(a), as being unpatentable over Hiramatsu et al. Applicant has amended claim 1 to include limits of claim 28 that the Examiner identified as making claim 28 allowable. Therefore, the rejection of claims 1-10, 15, 18-21, 23, and 25-27 under 35 U.S.C. § 103(a), as being unpatentable over

Conclusion

The prior art made of record but not relied upon has been reviewed. The patent to Maples shows LVDT probe embodiments but Maples does not teach or suggest the combination of limits of claim 1, as amended or of claim 28. In particular, in FIGS. 1 and 2 Maples does not provide two bearings for supporting the core. To the extent the coil itself can be considered a bearing the length of contact of the core with the coil exceeds the stroke length. In FIG. 3 Maples has the housing inner-surface-inside dimension less than the coil inside diameter. The other references appear to be no more relevant than those relied upon by the Examiner.

It is believed that the claims are in condition for allowance. Therefore, applicant respectfully requests favorable reconsideration. If there are any questions please call applicant's attorney at 802 864-1575.

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